

**SECTION 07 14 16  
FLUID APPLIED WATERPROOFING (SOLVENT BASED)  
OVER SPRAY POLYURETHANE FOAM**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Fluid applied flexible synthetic rubber waterproofing system over Spray Polyurethane Foam.

**1.2 RELATED SECTIONS**

- A. Section 07 22 16 Roof and Deck Insulation Board
- B. Section 03 30 00 Cast in place Concrete
- C. Section 07 21 00 Thermal Insulation

**1.3 REFERENCES**

- A. ASTM D2370 Test Method for Tensile Properties of Plastics.
- B. ASTM D1204 Test Method for Linear Dimensional changes of Non-rigid Thermoplastic Sheetting or Film at Elevated Temperature.
- C. ASTM G26 Practice for Operating Light Exposure Apparatus (Xenon Arc Type) With and Without Water for Exposure of Non Metallic Surfaces.
- D. ASTM E96 Water Vapor Transmission of Materials.
- E. ASTM E108 Test Methods for Fire Test of Roof Coverings.
- F. FM 4470 Wind Uplift Resistance.

**1.4 SUBMITTALS**

- A. Shop Drawings: Indicate special joint or termination conditions and conditions of interface with other materials.
- B. Product Data: Provide data for material description, physical properties, recommended storage conditions, shelf life, precautions, flexible flashings, and joint and crack sealants, with temperature range for application of waterproofing membrane.
- C. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- D. Test Data: Provide documentation supporting tests referred to under item 1.3.

**1.5 QUALIFICATIONS**

- A. Applicator: Company specializing in performing the work of this section approved by manufacturer.
- B. Manufacturer: Company shall have been manufacturing specified products for a minimum of 15 years.

**1.6 REGULATORY REQUIREMENTS**

- A. CT Products are Naphtha based and are **HIGHLY FLAMMABLE!**
- B. CT Products **MUST** be **POURED** out of the bucket then applied. **DO NOT** plunge roller into bucket, as static electricity from the roller may start a fire.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
  - 1. Name of manufacturer
  - 2. Name of contents and products code
  - 3. Net volume of contents
  - 4. Lot or batch number
  - 5. Storage temperature limits
  - 6. Shelf life expiration date
  - 7. Mixing instructions and proportions of contents
  - 8. Safety information and instructions
- B. Store and protect materials from damage and weather in accordance with manufacturer's instructions.
- C. Store materials at temperatures between 40°F and 90°F. Keep out of direct sunlight.
- D. Support stored material containers on pallets and cover with tarpaulin tied to bottom of pallets.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply if rain is expected before the application has time to dry.
- B. Temperatures should remain in the following ranges during application, drying and curing:
  - a. For Solvent based products:
    - i. Ambient Temperatures: between 32°F and 105°F
    - ii. Surface Temperature: between 32°F and 130°F
  - b. For Water based products:
    - i. Ambient Temperatures: between 45°F and 105°F
    - ii. Surface Temperature: between 40°F and 130°F

1.9 WARRANTY

- A. Upon contractor's completion of project and proper submittal of warranty request forms and documentation, manufacturer will determine acceptance and issue 10 year manufacturer's warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Sealoflex, Inc  
2520 Oscar Johnson Dr.  
Charleston, SC 29405  
www.sealoflex.com
- Phone: (843) 554-6466  
Toll Free: (800) 770-6466  
Fax: (843) 554-6458

2.2 MEMBRANE COMPOUND MATERIAL

- A. Waterproofing Material: Sealoflex three-stage, fabric reinforced, flexible system; liquid applied in successive stages to form one continuous, seamless watertight membrane 40 mil (1.0 mm) minimum cured total system thickness: comprised of the following:
  - 1. Base and Saturation Coats:  
Sealoflex CT Pink™ Highly flexible synthetic rubber based coating
  - 2. Flashing Fabric:  
4", 6", 12", 20" Sealoflex Fabric™ Polyester, non-woven, stitch bonded and heat set fabric
  - 3. Field Fabric:  
40" Sealoflex Fabric™ Polyester, non-woven, stitch bonded and heat set fabric
  - 4. Finish Coat:  
Sealoflex CT Top™ Ultraviolet light resistant blend of highly flexible synthetic rubber based coating.
  - 5. Fiber Coat:  
Sealoflex CT FibreSeal™ Fiber reinforced, rubber based single component coating

B. Cured Membrane Characteristics:

PROPERTY	TEST	RESULT
Tensile Strength	ASTM D2370	3109 psi
Elongation	ASTM D2370	61% (reinforced)
Moisture Vapor	ASTM E96	6.3 x 10 <sup>-3</sup> grains/ft <sup>2</sup> /hr
Wind Uplift	FM 4470	Meets class 1-690
Fire Rating	ASTM E108	Class A

2.3 ACCESSORIES

- A. Barrier Coat:  
Sealoflex Pink® Water based barrier coating
- B. Rust Neutralizer:  
Rust X-2020™ Light surface rust neutralizer
- C. Metal Primer:  
Sealoflex Metal Etch Primer™ Corrosion resistant acrylic primer for ferrous metal
- D. Adhesive Sealant:  
Generic Single-part polyurethane caulk

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify substrate surfaces are durable, free of frozen matter, dampness, loose particles, cracks, pits, projections or foreign matter detrimental to adhesion or application of waterproofing system.
- B. Verify that substrate surfaces are smooth and not detrimental to full contact bond of waterproofing materials.
- C. Verify that roof surface has positive drainage

### 3.2 PREPARATION

- A. Protect adjacent surfaces not designated to receive waterproofing.
- B. Clean and prepare surfaces to receive waterproofing by removing all loose and flaking particles, grease, dirt and laitance.
- C. Do not apply waterproofing to surfaces unacceptable to manufacturer.
- D. Seal cracks and joints with sealant materials using depth to width ratio as recommended by sealant manufacturer.

### 3.3 APPLICATION

- A. Apply Barrier Coat to the entire area at 80 - 100 sq ft per gallon, allow to dry
- B. Apply accessory primer(s) as necessary. Allow to dry.
- C. Apply 3/8" triangular bead of Adhesive Sealant at internal corners.
- D. Apply Base Coat, Flashing Fabric and Saturation Coat over board joints, cracks, flashings and non-working joints and perimeter, at 30 sq. ft. per gallon. Allow to dry.
- E. Optional: install primed metal drip edge at perimeter, adhering into place with Adhesive Sealant.
- F. **Spray apply** Fiber Coat at 20 – 25 sq. ft. per gallon over the entire area. Allow to dry. (Do not brush or roll apply)
- G. Apply two coats of Finish Coat over the entire area at 140 sq. ft. per gallon per coat. Allow to dry between coats.
- H. Waterproofing system should be a minimum of 40 mils total cured thickness.

### 3.4 CLEANING

- A. Immediately clean adjacent areas not scheduled to receive waterproofing in accordance with manufacturer's recommendations.

### 3.5 PROTECTION OF FINISHED WORK

- A. Protect finished waterproofing from weather until cured.

END OF SECTION

**IMPORTANT NOTE:** Always check our website, [www.sealoflex.com](http://www.sealoflex.com) to determine if the printed literature you are reading is the most current version available.